FIELD CROPS

COSTS AND RETURNS

FROM

FARM COST ACCOUNTS

28 FARMS-1982 NEW YORK STATE

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REPORTS from FARM COST ACCOUNTS

28 Farms, 1982

Enterprise data from the 1982 New York Farm Cost Account Project have been published in the following reports. Additional copies may be obtained from County Extension offices or directly from the Department of Agricultural Economics, Cornell University, Ithaca, New York 14853-0398.

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FIELD CROPS COSTS AND RETURNS, A.E. Res. 83-43

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INTRODUCTION

The New York Farm Cost Account Project is a research project which serves as a means of obtaining primary cost data for enterprises common on New York farms. It provides data on labor requirements and costs, machinery costs, and production costs for crop and livestock enterprises. The data is published from detailed enterprise records kept by New York farmers in cooperation with the Department of Agricultural Economics at Cornell University. These publications provide College and field staff, as well as farmers and others interested in agriculture, with a continuous record of economic changes taking place on New York farms.

The farms are located in most of the farming areas of the State. They are generally well-managed, full-time, commercial farm businesses. They provide an indication of economic factors experienced by commercial farm businesses in New York.

The reports present the results of individual enterprises and the averages of the enterprise costs and returns for all farms. They show not only the averages of cost and returns but also indications of the variations and reasons for them. The factors for individual enterprises are arranged according to size of enterprise. The annual averages of the various factors are not averages of average costs but are weighted by the size of the enterprise.

Acknowledgements

The project was under the supervision of Darwin Snyder, who also did the field work necessary to complete the records. Editing and processing the data, closing the books, completing the analysis, and preparing these reports were done by Barbara Wilcox and Florence Blodgett with assistance from Mary Chaffee, Cynthia Farrell and Diana Atkinson.

The material on pages 2, 3, and 4 of this report was taken from A.E. Res. 83-32, Dairy Farm Management Business Summary, New York, 1982 by Stuart F. Smith and Linda D. Putnam.

Special acknowledgement is due the group of farmers who are willing to keep the detailed records so essential to such a system of enterprise cost accounting. Without their continuing efforts and willingness to provide this information, this important and accurate source of farm data would not exist.

Inflation, appreciation, supply and demand all have a direct affect on the inventory values on New York dairy farms. Machinery and real estate prices have risen steadily during the past six years with machinery prices increasing more rapidly. Dairy cow prices have changed most dramatically as the demand for replacements jumped in 1978 and 1979 and weakened in 1981 and 1982.

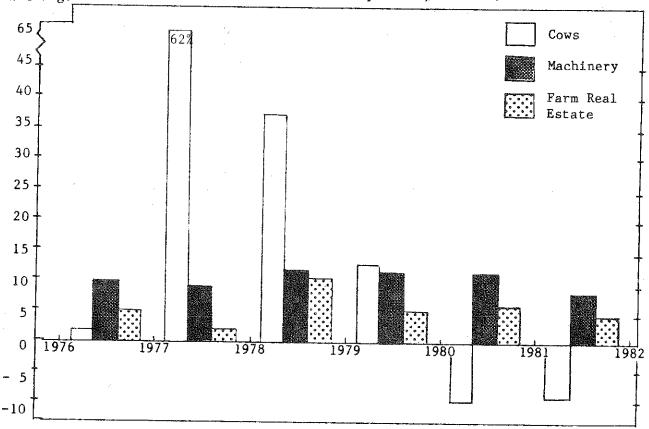
Table 1. UNIT VALUES OF NEW YORK DAIRY FARM INVENTORY ITEMS, 1976-1982

	New York D	airy Cows	Machinery*	N.Y. Farm Rea	l Estate
Year	Value/Head	1977=100	1977=100	Value/Acre	1977=100
1976	\$ 485	98	91	\$553	95
1977	49 5	100	100	587	100
1978	800	162	109	600	102
1979	1,105	223	122	670	113
1980	1,240	251	136	708	119
1981	1,120	226	152	749	126
1982	1,010	204	165	786	132

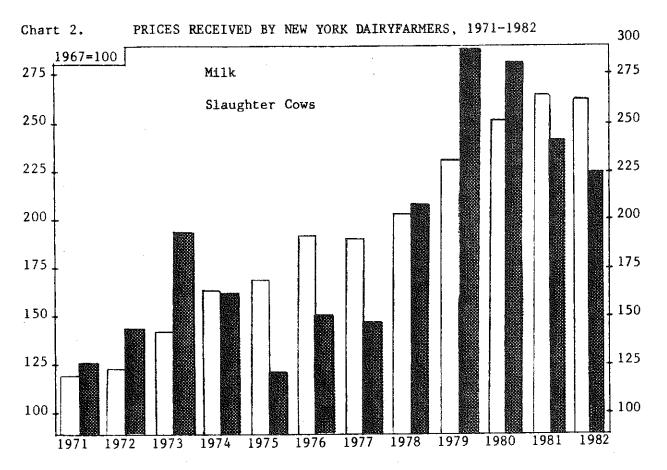
*Annual average for U.S.

Table 1 shows New York year end (December) price received for dairy cows (replacements), an index of the same cow prices, an index of U.S. machinery prices, the average per acre value of New York farmland and buildings reported in April, and an index of the real estate prices.

Chart 1. ANNUAL CHANGES IN DAIRY COW, FARM MACHINERY, & FARM REAL ESTATE VALUES % change New York Dairy Farms, 1976-1982



Source: USDA, Farm Real Estate Outlook & Situation Summary. USDA, Agricultural Prices.



The prices dairyfarmers receive for milk, cattle, and other commodities they sell have a major effect on dairy farm profits. Chart 2 shows what has happened to average milk and slaughter cow prices paid to New York farmers since 1971. Milk prices have increased at a more constant rate showing declines in 1977 and 1982. Slaughter cow prices have shown wide fluctuations over the period but have not moved in the same direction for more than four consecutive years; since 1979 prices have been declining.

Table 2. PRICES RECEIVED BY NEW YORK DAIRYFARMERS, 1970-1982

	A11	Slaughter		Monthly Farm	
Year	Milk	Cows	Calves	100 Lbs. of 1	<u>Milk, 1982</u>
	(cwt.)	(cwt.)	(cwt.)		
1970	\$ 5.99	\$20.70	\$34.70	January	\$13.80
1971	6.12	21.20	36.20	February	13.70
1972	6.33	24.50	44.80	March	13.50
1973	7.32	32.80	54.60	April	13.20
1974	8.35	27.10	40.80	May	12.90
1774	0,00	2, 12.		June	12.90
1975	8.71	20.60	26.20	July	13.30
1976	9.83	25.40	34.50	August	13.80
1977	9.75	25.00	37.50	September	14.00
1978	10.50	35.30	58.20	October	14.20
1979	11.90	49.80	88.80	November	14.20
19/9	11.50	13.00		December	13.90
1980	13.00	46.30	78.00		
1981	13.80	41.30	66.20		
1982	13.70	38.60	58.80		

Source: USDA, Agricultural Prices Annual Summary.

Table 3. PRICES PAID BY FARMERS FOR SELECTED ITEMS, 1972-1982

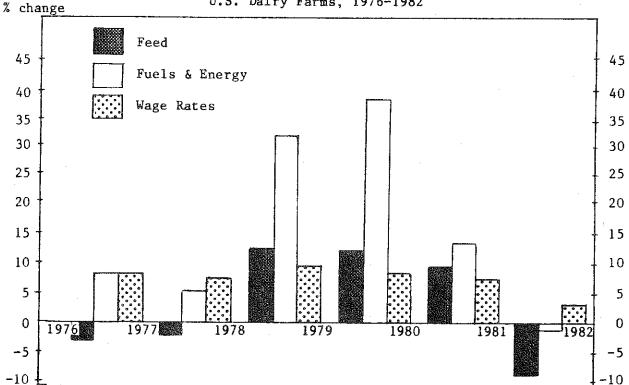
		Index 1977=100									
Year	Feed	Fert.	Fuel & Energy	Wage Rates	Taxes	Interest					
1972	57	52	54	63	75	47					
1973	86	56	57	69	77	55					
1974	104	92	79	79	81	65					
1975	100	120	88	85	87	77					
1976	103	102	93	93	94	88					
1977	100	100	100	100	100	100					
1978	98	100	105	107	100	117					
1979	110	108	137	117	107	143					
1 98 0	123	134	188	126	115	174					
1981	134	144	213	137	123	211					
1982	122	144	211	141	131	233					

SOURCE: USDA Agricultural Prices

The prices dairyfarmers pay for a given quantity of goods and services has a major influence on farm production costs. The astute manager will keep close taps on unit costs and substitute the most economical goods and services for those that are too expensive.

Table 3 shows the unit cost indexes of selected goods and services used on New York dairy farms. The changes in feed prices, fuels and energy costs, and wage rates between years are illustrated in Chart 3.

Chart 3. ANNUAL CHANGES IN PRICES OF THREE MAJOR PRODUCTION ITEMS
U.S. Dairy Farms, 1976-1982



Fuel and energy costs have decreased for the first time in the last 10 years; feed costs decreased to below the 1980 level. Wage rates continue to increase.

Growing Conditions

Table 1. TEMPERATURE, PRECIPITATION, AND GROWING SEASON Selected Stations, New York, 1941-70 and 1982

	Avera	ige					Length	of
	tempera	ture	P	Precipitation				
	May - S	Sept.	May - S	ept.	Total An	nual	season*	
Station	1941-70	1982	1941-70	1982	1941-70	1982	1947-67	1982
	degre	ees	inches				day	's
Albany	65.7	63.7	15.4	14.9	33.4	32.1		165
Alfred	61.8	60.0	17.2	18.0	36.7	35.4	125	106
Batavia	64.1	63.5	15.3	15.8	32.6	34.7	154	171
Binghamton	63.3	63.4	17.9	17.7	37.4	35.1	154	177
Canton	63.0	61.5	16.5	16.8	34.5	35.8	127	153
Gene va	70.6	64.0	14.6	12.9	32,3	25.5		178
Glens Falls		64.4	17.8	16.9	39.3	39.3		171
Ithaca	63.8	62.3	17.2	17.3	34.8	31.4	145	159
Lowville	62.5	60.2	16.5	16.7	38.5	36.9	123	116
Utica	63.5	64.3	18.1	15.6	40.6	36.5	157	160

^{*} Days between the last temperature of 32 degrees in the spring and the first in the fall.

Source: Climatological Data, NOAA, Environmental Data Service, Annual Summary, New York, 1982, Vol. 94, No. 13.

Weather is a factor to be considered when studying a farm business for a specific year. The growing conditions have a marked effect on the crops for that year. It is for this reason that data are presented on the growing conditions for 1982 and for the period 1941-70.

Statewide, the 1982 crop season was characterized by a warm May and a wet June in an otherwise cool and dry season. In spite of generally unfavorable below average temperatures and rainfall, crop needs were apparently met at the right time in such a way that crop yields were quite normal for the year.

Table 2. GROWING SEASON RAINFALL
Selected Stations, New York, 1941-70 and 1982

	May		June		Ju1	July		st	Septem	
	1941-70	1982	1941-70	1982	1941-70	1982	1941-70	1982	1941-70	1982
									0.10	
Albany	3.26	2.60	3.00	6.48	3.12	2.43	2.87	2.01	3.12	1,42
Alfred	3.76	3.46	3.76	6.67	3.73	3.35	3.00	1.49	2.93	3.04
Batavia	3.17	3.45	2.69	3.60	3.05	2.06	3.50	3.75	2.87	2.96
Binghamton	3.83	3.89	3.59	7.09	3.83	1.87	3.61	2.94	3.02	1.86
Canton	3.37	1.87	2.91	3.93	3.43	2.24	3.47	4.83	3.31	3.96
Geneva	3.02	2.09	3.10	4.74	3.06	2.64	2.82	0.74	2.59	2.68
Glens Fall	s 3.63	3.51	3.77	5.82	3.68	1.47	3,42	3.96	3.31	2.13
Ithaca	3.55	2.96	3.40	5.74	3.67	2.90	3,49	1.99	3.08	3.68
Lowville	3.42	2.06	2.94	3.50	3.26	2.60	3.58	3.96	3.31	4.58
Utica	3,52	2.72	3,55	5.81	4.17	3.11	3.54	1.71	3.32	2.20

Source: Climatological Data, NOAA, Environmental Data Service, Annual Summary, New York, 1982, Vol. 94, No. 13.

YIELDS FOR CROPS AND LIVESTOCK
New York State and Farm Cost Account Averages

			New York	State*		Cost Account
Item	Unit	1957-61	1967-71	1977-81	1982	1982
Hay, Alfalfa mix.	tons	2.2	2.6	2.7	2.7	2.5
Corn Silage	tons	11	14	14	14	14
Corn grain	bu.	57	85	90	92	106
0ats	bu.	52	60	60	65	NA
Wheat	bu.	32	39	40	44	50
Milk per cow	lbs.	7,914	10,361	11,742	12,129	15,706

^{*}Source: New York Agricultural Statistics, 1982; Crop Reporting Service, USDA.

FARM COST ACCOUNT SUMMARY, 1982 Crop Enterprises

	Number	Averag acres	e	Hours of	Retu	rn per		Profit
Crop	of enter- prises	per enter- prise	Yield per acre	labor per acre*	Hour of labor	Dollar of cost	Profit per acre	on enter- prise
Forage:		· · · · · · · · · · · · · · · · · · ·						
Нау	19	80	2.5 t	n 7	2,98	0.91	18-	1,449-
Hay crop silage	20	151	6.1 tr	n 4	2.20-	0.85	32-	4,812-
Corn silage	21	137	14.2 ti	n 5	3.38	0.96	15-	2,049-
Grain:								
Corn for grain	6	159	106 b	u 4	5.14-	0.84	57-	9,076-
High moist, corn	19	137	3.8 ti	a 3	6.63-	0.86	42-	5,796-
Wheat, winter	7	152	50 b	ı 2	16.29-	0.77	51-	7,844-
Wheat, spring	6	78	45 bi	1 2	14.29-	0.77	53-	4,084-
Fruit:								
Apples	12	86	537 bi	105	4.50	0.83	281-	24,347-
Red tart cherries	s 6	37	7,313 1	b 41	6.94	1.03	31	1,169

^{*}To grow and harvest the crop.

ENTERPRISE RATES OF RETURN
FARM COST ACCOUNT RECORDS, 1979-82

	Retur	Return per hour of labor			Return per dollar of cost			
Enterprise	1979	1980	1981	1982	1979	1980	1981	1982
Bitter pri 18e	\$	\$	\$	\$	\$	\$	\$	\$
Livestock:								
Dairy cows Dairy heifers	10.77 3.97	10.64 5.94	7.89 0.25	8.65 1.49	1.15 0.96	1.11 0.99	1.04 0.87	1.07 0.91
Forage:							i	
Hay Hay crop silage Corn silage	0.90 0.39 9.05	0.02 5.82 5.86	1.70 2.79 5.97	2.98 2.20- 3.38	0.84 0.87 1.07	0.81 1.00 0.99	0.86 0.94 0.99	0.91 0.85 0.96
Grain:								
Corn for grain High moisture corn Oats Wheat, winter Wheat, spring	5.12 18.84 18.35- 22.68 NA	23.76 22.68 NA 22.46 NA	12.79- 0.45 NA 15.26 NA	5.14- 6.63- NA 16.29- 14.29-	1.00 1.22 0.63 1.26 NA	1.28 1.23 NA 1.21 NA	0.77 0.92 NA 1.10 NA	0.84 0.86 NA 0.77 0.77
Fruits:								
Apples Red tart cherries	7.39 33.16	5.52 17.29	8.97 13.76	4.50 6.94	1.07 2.80	0.91 1.62	1.13 1.35	0.83 1.03

Hay -

Hay enterprises deal only with that portion of the hay crop harvested as dry hay. Efforts are made to separate the costs related to dry hay production and those for hay crop silage. The hay crop is normally harvested more than once and, on most dairy farms, the harvest will include both dry hay and hay crop silage - sometimes on the same field the same day. Estimates are made to determine a reasonable allocation of production and acres to both enterprises.

Growing costs include only those costs related to an established hay crop. Costs to establish new seedings are not included except as seeding costs are amortized over the life of the stand. This year's share of those costs are shown as "seed" costs.

Harvesting costs include costs for the obvious harvesting activities plus costs to place the crop in farm storage or on a truck if sold at harvest time.

Storing and selling costs include costs to store the crop and interest on the value of the crop while stored. Costs incurred by the grower to sell any part of the crop would also be included.

HAY COSTS AND RETURNS PER ACRE 1,518 ACRES ON 19 COST ACCOUNT FARMS, 1982

ITEM	<u></u>	AVERAGE	PER ACR
COSTS		•	-
GROWING:			
LABOR	0 HR	\$ 0	
TRACTOR	0 HR	. 0	
TRUCK, I	EQUIPMENT	1	
CUSTOM V	VORK, EQUIPMENT RENT	0	
LAND USI]	39	
MANURE,	LIME, COVER CROP	3	
FERTILIZ	ZER - LBS N- 3, P- 10, K- 31	10	
SEED. PI	LANTS NA	14	
SPRAY, I	DUST MATERIALS	1	
INTEREST	F, ALL OTHER	3	
TOTA	AL GROWING COSTS		\$ 71
HARVESTING	:		
LABOR	7 HR	38	
TRACTOR	2 HR EQUIPMENT	19	
TRUCK,	EQUIPMENT	28 1	
GUSTOM (WORK, EQUIPMENT RENT	14	
ALL UID TOT	AL HARVESTING COSTS	14	100
ተርተ	AL PRODUCTION COSTS		\$171
STORING AN	D CELLING.		91/1
LABOR	0 HR	1	
TRACTOR	, TRUCK, EQUIPMENT	ō	
BUILDIN	G USE	11	
INTERES	T, ALL OTHER	10	
TOT	AL STORING AND SELLING COSTS		22
TOTAL COST	s		\$193
RETURNS		:	
	LD: 2.5 TN	6175	
CKOP - YIE	OTHER RETURNS**	\$175 0	
BY-PRODUCT	RNS	U	\$175
TOTAL RETU	KN2	•	·
PROFIT			18
		AVE	RAGE
OTHER FACTORS:	COST PER TN TO: GROW	\$	28
	HARVEST	•	39
	STORE AND SELL		10
	TOTAL (OR NET*) COST PER TN		77
	TOTAL (OR NET*) RETURN ** PER TN		70
	PROFIT PER TON		7-
	LABOR RETURN PER ACRE	\$	21
	PRODUCTION PER HOUR OF LABOR		0.4 TN
	PRODUCTION PER HOUR OF LABOR RETURN PER HOUR OF LABOR		0.4 TN .98

^{*}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED.
**RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED.

FACTORS FROM 19 ENTERPRISES OF HAY 19 COST ACCOUNT FARMS, 1982 (ARRANGED BY ACRES OF CROP)

•				PROD				ř
	ACRES			PER			E PER ACRE	
FARM	PER		PER ACRE	HR OF	GROW	HARV	TOTAL	TOTAL
NO	ENTR	YIELD	LABOR*	LABOR	COST	COST	COST**	RETURN
	AC	TN	HR	TN	\$	\$	\$	\$
830	286.5	2.0	. 11	0.2	56	108	179	163
840	139.0	2.7	4	0.8	52	60	136	148
836	120.5	3.7	8	0.4	102	115	249	247
827	106.0	2.8	7	0.4	121	128	286	187
867	104.7	2.4	. 5	0.5	76	90	188	173
117	101.8	2.0	6	0.3	27	68	116	118
105	98.0	2.8	6	0.5	69	78	170	211
153	91.6	1.8	4	0.4	30	68	109	111
111	77.0	2.2	8	0.3	94	111	220	132
821	61.0	3.2	5	0.6	62	82	162	254
112	53.8	3.1	. 9	0.3	100	139	261	227
835	49.0	3.5	6	0.6	69	117	228	264
828	40.5	1.9	11	0.2	55	119	197	122
824	39.5	2.0	7	0.3	112	126	245	140
127	38.0	2.1	3	0.6	123	85	247	177
146	37.2	1.6	5	0.3	100	126	246	107
834	30.0	3.5	7	0.5	62	62	157	228
804	28.3	3.0	10	0.3	81	180	287	208
105	16.0	2.5	6	0.4	57	143	236	200
1982 GR	OUP AVE	RAGES, AC	CORDING TO	ACRES:				
THIRDS								
HIGH	143.1	2.6	7	0.4	72	95	192	173
MED	67.3	2.6	7	0.4	68	102	192	189
LOW	31.5	2.4	6	0.4	89	120	237	177
ANNUAL	AVERAGES	S - ALL E	NTR, WEIGHT	ED BY ACRE	S:			
1982	79.9	2,5	7	0.4	— 71	99	193	175
1981	52.4	3.2	7	0.4	87	118	234	202
1980	70.1	2.8	7	0.4	80	97	201	163
1979	76.0	2.9	7	0.4	72	97 89	185	155
1978	76.1	2.2	5	0.4	72 49	66	131	123
1770	/ U » I	4.4.	J	U. Y	47	UU	131	143

^{*}TO GROW AND HARVEST THE CROP.

^{**}INCLUDES STORING AND SELLING COSTS.

^{***}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED).

FACTORS FROM 19 ENTERPRISES OF HAY
19 COST ACCOUNT FARMS, 1982
(READ ACROSS BOTH PAGES)

		AVE	RAGE	RETURN	PER		
AVERAGE 1	PER ACRE		TON***	HOUR	\$		
AVBIMOL	LABOR	NET	NET	OF	OF	PROFIT ON	FARM
PROFIT	RETURN	COST	RETURN	LABOR	COST	ENTERPRISE	NO
\$	\$	\$	\$	\$	\$	\$	
16-	39	89	81	3.64	0.91	4,637-	830
12	39	50	54	9.73	1.10	1,798	840
2 -	52	67	67	6.15	0.99	273-	836
∠ 99	43-	101	66	6.49-	0.65	10,488-	827
15~	6	79	73	1.21	0.92	1,572-	867
2	32	59	60	5.42	1.02	231	117
	32 75	60	75	11.50	1.24	4,065	105
41	75 21	59	60	4.76	1.01	141	153
2		99	60	5.34-	0.60	6,707-	111
88-	41-	51	80	23.53	1.57	5,657	821
92	118	85	74	0.75	0.87	1,843-	112
34-	7	65	74 76	10.86	1.16	1,798	835
36	67		65	2.29-	0.62	3,041-	828
75-	25-	105 122	70	10.31-	0.57	4,136-	824
105-	68-		70 85	15.14-	0.72	2,664-	127
70-	50-	119	66	21.14-	0.43	5,184-	146
139-	114-	153	65	16.46	1.45	2,126	834
71	109	45	70	1.10-	0.72	2,234-	804
79- 36-	10- 5-	97 94	70 80	0.88-	0.85	568-	105
	OUP AVERAGES						
1902 GR	OUL AVERTIONS	, 110001111					THIRDS
				0.00	0.02	2,490-	HIGH
19-	21	74	67	3.28	0.93	2,490-	MED
4-	32	75	70	6.25	1.01	2,110-	LOW
60-	23-	100	73	5.35-	0.79	2,110-	100
ANNUAL	AVERAGES - A	ALL ENTR,	WEIGHTED BY	ACRES:			
18-	21	77	70	2.98	0.91	1,449-	1982
32-	13	74	64	1.70	0.86	1,710-	198
38-	0	70	57	0.02	0.81	2,632-	198
30-	- 6	64	54	0.90	0.84	2,260-	197
31.1—	U	υ π	57	3.31	0.94	569-	197

Hay Crop Silage -

Hay crop silage enterprises deal only with that portion of the hay crop handled as hay crop silage. See notes on page $8 \, \cdot \,$

Because hay crop silage is harvested at a wide range of moisture levels, production is converted to a standard equivalent at 55 percent moisture to provide more meaningful data to average and/or compare.

Storing and selling costs include the cost of storing the silage and interest on the value of the crop while stored. Costs to remove the crop from storage are charged to the consuming livestock enterprise.

HAY CROP SILAGE COSTS AND RETURNS PER ACRE 3,013 ACRES ON 20 COST ACCOUNT FARMS, 1982

ITEM		AVERAGE	PER ACR
OSTS			
GROWING:			
I.AROR	0 HR	\$ 1	
TRACTOR	0 HR	0	
TRUCK, F	OUTPMENT	0	
CUSTOM W	ORK, EOUIPMENT RENT	1 -	
LAND USE		51	
MANURE,	LIME, COVER CROP	4	
FERTILIZ	ER - LBS N- 3, P- 11, K- 61	15	
SEED, PI	ANTS NA	23	
SPRAY, I	OUST MATERIALS	2	
INTEREST	ALL OTHER	4	610
	iL GROWING COSTS		\$10
HARVESTING:		22	
	4 HR	23 19	
TRACTOR	EQUIPMENT	40	
CHOUN, I	ORK, EQUIPMENT RENT	0	
VII ULLI COSTOLI A	IR	6	
ALL UIII	AL HARVESTING COSTS	Ŭ	8
TOTA	AL PRODUCTION COSTS		\$18
STORING ANI			
LABOR	0 HR	0	
TRACTOR	TRUCK, EQUIPMENT	0	
BUILDING	G USE	15	
INTEREST	r, ALL OTHER	10	
TOT	AL STORING AND SELLING COSTS		2
TOTAL COSTS	3		\$21
ETURNS	ID. () The A SEW MOTORIDE	\$182	•
CROP - YIE	LD: 6.1 TN - @ 55% MOISTURE	•	
	OTHER RETURNS**	0	\$18
			•
PROFIT			3
		AVE	RAGE
THER FACTORS:	COST PER TN TO: GROW	 \$	 17
JIMER TRIOTORD.	HARVEST	•	14
	STORE AND SELL		4
	TOTAL (OR NET*) COST PER TN		35
	TOTAL (OR NET*) RETURN ** PER TN		30
	PROFIT PER TON		5-
	LABOR RETURN PER ACRE	\$	15-
	PRODUCTION PER HOUR OF LABOR		1.6 TN
	RETURN PER HOUR OF LABOR	\$2	20-
			.85

^{*}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED.
**RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED.

FACTORS FROM 20 ENTERPRISES OF HAY CROP SILAGE 20 COST ACCOUNT FARMS, 1982 (ARRANGED BY ACRES OF CROP)

				PROD				e.
	ACRES			PER			E PER ACRE	
FARM	PER	AMERICAN AND ADDRESS OF THE PARTY OF THE PAR	PER ACRE	HR OF	GROW	HARV	TOTAL	TOTAL
NO	ENTR	YIELD	LABOR*	LABOR	COST	COST	COST**	RETURN
	AC	TN	HR	TN	\$	\$	\$	\$
834	6 9 0.0	6.3	3	2.0	97	71	186	177
827	293.5	6.8	6	1.2	126	110	268	204
830	381.8	4.7	4	1.1	61	79	155	185
806	211.6	6.9	5	1.4	128	119	273	206
824	197.4	4.8	4	1.4	129	78	252	155
111	195.0	5.6	5	1.2	103	110	226	169
812	189.8	6.9	2	3.6	159	61	239	194
840	119.0	6.3	3	2.1	101	74	194	152
105	110.5	5.8	4	1.5	72	86	187	174
804	100.0	6.1	4	1.4	78	89	179	182
835	82.0	7.9	3	2.4	66	137	275	236
112	81.7	6.9	4	1.8	110	101	258	207
105	81.6	6.5	3	2.1	95	138	257	209
146	70.1	3.9	4	0.9	100	124	234	126
821	70.0	6.4	2	2.6	62	67	154	219
828	63.4	4.4	3	1.6	75	77	191	124
127	52.0	4.4	2	2.1	123	55	213	155
153	49.2	6.4	2	2.7	30	60	132	166
117	47.1	6.9	4	1.6	69	83	168	179
867	27.3	6.4	2	2.6	118	97	253	200
1982 GR	OUP AVE	RAGES, AC	CORDING TO	ACRES:				
THIRDS								· .
HIGH	294.2	6.0	4	1.7	115	90	228	184
MED	95.8	6.6	4	1.9	87	104	225	193
LOW	54.2	5.5	3	2.0	82	80	192	167
ANNUAL	AVERAGES	S - ALL EI	NTR, WEIGHT	ED BY ACRE	S:			
					···			**
1982	150.7	6.1	4	1.6	101	88	214	182
1981	149.0	7.9	<u>Ц</u> -	2.0	106	100	233	219
1980	156.5	7.2	4	1.9	87	84	195	194
1979	139.9	6.6	5	1.4	82	82	189	165
1978	137.1	4.9	4	1.2	66	64	148	117

^{*}TO GROW AND HARVEST THE CROP.

NOTE: YIELD ADJUSTED TO 55 PERCENT MOISTURE.

^{**}INCLUDES STORING AND SELLING COSTS.

^{***}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED).

FACTORS FROM 20 ENTERPRISES OF HAY CROP SILAGE 20 COST ACCOUNT FARMS, 1982 (READ ACROSS BOTH PAGES)

			RAGE	RETURN			
AVERAGE I			TON***	HOUR	\$		
	LABOR	NET	NET	OF	OF	PROFIT ON	FARM
PROFIT	RETURN	COST	RETURN	LABOR	COST	ENTERPRISE	NO
\$	\$	\$	\$	\$	\$	\$	
9-	10	29	28	3.02	0.95	6,055-	834
64-	16-	39	30	2.76-	0.76	18,651-	827
30	56	33	39	12.03	1.20	8,601	830
67-	30-	40	30	6.43-	0.75	14 ,1 85	806
97	77	52	32	21.86-	0.61	19,189-	824
57-	30-	40	30	6.39-	0.75	11,136-	111
45	33-	35	28	17.22-	0.81	8,541-	812
42-	23-	31	24	7.59-	0.78	5,076-	840
13-	8	32	30	2.03	0.93	1,412-	105
3	31	30	30	7.04	1.02	299	804
39-	23-	35	30	7.07-	0.86	3,256-	835
51-	31-	37	30	8.34-	0.80	4,159-	112
48-	30-	39	32	9.67-	0.81	3,919-	105
108-	88-	60	32	20.75-	0.54	7,589-	146
65	77	24	34	31.61	1.42	4,506	821
67-	54-	43	28	19.16-	0.65	4,255-	828
58-	45-	48	35	22.50-	0.73	3,001-	127
34	46	21	26	19.35	1.26	1,698	153
11	33	24	26	7.74	1.07	532	117
53-	42-	39	31	16.88-	0.79	1,451-	867
1982 GRO	UP AVERAGES,	ACCORDIT	IG TO ACRES:				
1702 010	or managed,	, 110001101		-			
						•	THIRDS
44-	17-	38	31	5.66-	0.83	9,879-	HIGH
32-	11-	34	29	3.93-	0.87	2,921-	MED
25-	10-	37	30	2.94-	0.92	1,366-	LOW
ANNUAL A	VERAGES - AI	LL ENTR, V	WEIGHTED BY	ACRES:			
20	1 6	25	30	2.20-	0.85	4,812-	1982
32-	15-	35		2.79	0.94	2,129-	1981
14-	11	30	28	2.79 5.82	1.00	152-	1980
1-	23	27	27			3,417-	1979
24-	2	29 30	2 <u>5</u> 24	0.39 2.52-	0.87 0.79	4,290-	1978
31-	9	311	14	/ - 7/-	U. /9	4.790-	19/0

Corn Silage -

Storing and selling costs include the cost of storing the silage and interest on the value of the crop while stored. Costs to remove the crop from storage are charged to the consuming livestock enterprise.

CORN SILAGE COSTS AND RETURNS PER ACRE 2,869 ACRES ON 21 COST ACCOUNT FARMS, 1982

ITEM		AVERAGE	PER ACRE
COSTS			
GROWING:			
LABOR	2 HR	\$ 11	
TRACTOR	1 HR	15	
TRUCK, I	COUIPMENT	23	
CUSTOM V	WORK, EQUIPMENT RENT	3	
LAND USE	,	52	
MANURE.	LIME, COVER CROP	27	
FERTILI:	ZER - LBS N- 95, P- 65, K- 75	51	
SEED, PI	ANTS 25 M	17	
SPRAY. 1	OUST MATERIALS	24	
TNTERES"	r, ALL OTHER	- 5	
тот/	AL GROWING COSTS	_	\$228
HARVESTING			
LABOR	3 HR	20	
TRACTOR	2 HR	17	
TRUCK.	EQUIPMENT	37	
CUSTOM I	WORK, EQUIPMENT RENT	0	
ALL OTH	ER	4	
TOTA	AL HARVESTING COSTS	•	78
TOT	AL PRODUCTION COSTS	•	\$306
STORING AN	CETTINO.		7000
LABOR	0 HR	0	
ቸያ ልር ተ ርዩ	, TRUCK, EQUIPMENT	1	4
BUILDIN	G USE	14	
TNTERES'	r, all other	18	
TOT	AL STORING AND SELLING COSTS		33
TOTAL COST			\$339
101112 0001			,
RETURNS			- ·
CROP - YIE	LD: 14.2 TN	\$324	
BY-PRODUCT	, OTHER RETURNS**	. 0	
TOTAL RETU	RNS		\$324
			15
PROFIT			
		AVER	AGE
OTHER FACTORS:	COST PER TN TO: GROW	\$	16
· - -	HARVEST	•	6
•	STORE AND SELL		2
	TOTAL (OR NET*) COST PER TN		24
	TOTAL (OR NET*) RETURN ** PER TN		23
	PROFIT PER TON		1-
		ŝ	16
	LABOR RETURN PER ACRE	Y	
	PRODUCTION PER HOUR OF LABOR	,	2.9 TN
		,	2.9 TN

^{*}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED.
**RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED.

FACTORS FROM 21 ENTERPRISES OF CORN SILAGE 21 COST ACCOUNT FARMS, 1982 (ARRANGED BY ACRES OF CROP)

		-		PROD				
	ACRES			PER			E PER ACRE	
FARM	PER	average and a second	PER ACRE	HR OF	GROW	HARV	TOTAL	TOTAL
NO	ENTR	YIELD	LABOR*	LABOR	COST	COST	COST**	RETURN
	AC	TN	HR	TN	\$	\$	\$	\$
834	531.8	12.2	3	3.5	190	59	285	269
812	308.1	18.5	. 3	6.6	272	89	408	407
827	29 0.0	14.8	6	2.4	228	99	345	326
806	277.1	13.3	6	2.2	228	82	327	306
840	179.0	14.3	4	4.0	241	62	332	286
830	170.5	16.8	8	2.3	246	66	347	438
824	154.1	17.1	5	3.5	241	84	356	394
804	130.8	16.7	7	2.7	257	9 5	371	385
821	130.0	14.5	5	2.6	230	61	337	363
105	100.0	13.9	4	3.6	201	99 .	337	348
112	82,5	14.5	5	2.8	208	93	357	313
836	81.9	12.7	5	2.3	189	78	314	298
835	76.0	13.6	4	3.6	255	59	363	326
111	68.0	10.9	8	1.3	193	135	361	250
153	60.5	8.8	3	3.8	228	32	281	177
105	52.8	15.5	6	2.7	246	80	372	357
828	48.3	4.9	4	1.1	255	62	333	107
127	39.0	13.6	5	2.7	247	81	363	381
146	35.0	9.3	5	1.9	206	113	336	213
867	28.0	11.0	5	2.0	243	76	361	264
117	25.9	11.7	7	1.8	200	125	337	235
1982 GI	ROUP AVE	RAGES, ACC	CORDING TO	ACRES:		·		
THIRDS								.: .
HIGH	272.9	15.3	5	3.5	235	77	343	347
MED	95.6	13.8	5	2.7	219	89	349	. 326
LOW	41.4	10.7	5	2.3	232	81	340	248
ANNUAL	AVERAGE	S - ALL E	TR, WEIGHT	ED BY ACRE	<u>s:</u>			
1982	136.6	14.2	5	2.9	228	79	339	324
1981	110.9	16.0	5	3.1	220	95	347	342
1980	122.1	14.6	5	3.0	202	80	307	304
1979	122.0	14.6	5	2.8	173	66	263	281
1978	123.0	12.3	· 5					

^{*}TO GROW AND HARVEST THE CROP.

^{**}INCLUDES STORING AND SELLING COSTS.

^{***}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED).

FACTORS FROM 21 ENTERPRISES OF CORN SILAGE 21 COST ACCOUNT FARMS, 1982 (READ ACROSS BOTH PAGES)

	PER	RETURN	AGE	AVER		•
	\$	HOUR	ON***	PER T	ER ACRE	AVERAGE P
PROFIT ON	OF	OF	NET	NET	LABOR	
ENTERPRISE	COST	LABOR	RETURN	COST	RETURN	PROFIT
\$	\$	\$	\$	\$	\$	\$
8,657-	0.94	1.17	22	23	4	16-
	1.00	8.84	22	22	25	1-
5,471-	0.95	5 .39	22	23	33	19-
5,763-	0.94	3.84	23	25	23	21-
	0.86	6.06-	20	23	22-	46-
15,524	1.26	16.83	26	21	136	91
5 ,869	1.11	13.41	23	21	66	38
1,830	1.04	8.91	23	22	- 56	14
3,397	1.08	9.87	25	23	54	26
1,099	1.03	8.23	25	24	32	11
3,647-	0.88	3.47-	22	25	18-	44-
1,284-	0.95	4.12	23	25	23	16-
2,848-	0.90	5.05-	24	27	19-	37-
7,599-	0.69	7.35-	23	33	62-	111-
6,271-	0.63	39.74-	20	32	92-	104-
813-	0.96	2.77	23	24	16	15-
10,897-	0.32	45.15-	22	68	205-	226-
685	1.05	8.97	28	27	45	18
4,319-	0.63	20.43-	23	36	101-	123-
2,736-	0.73	13.17-	24	33	73-	97-
2,644-	0.70	10.36-	20	29	67-	102-
			TO ACRES:	ACCORDING	JP AVERAGES,	1982 GROL
999-	1.01	6.20	23	23	38	4
1,293-						23-
3,856-	0.72	16.73-	23	36	68-	92-
		CRES:	EIGHTED BY A	L ENTR, WI	VERAGES - AL	ANNUAL AV
2.049-	0.96	3,38	23	24	16	15-
						5-
						3-
2,181	1.07	9.05	19	18	48	18
		J 6 U J		40		+ •
	\$ 8,657- 398- 5,471- 5,763- 8,096- 15,524 5,869 1,830 3,397 1,099 3,647- 1,284- 2,848- 7,599- 6,271- 813- 10,897- 685 4,319- 2,736- 2,644- 999- 1,293- 3,856- 2,049- 556- 417-	\$ OF PROFIT ON ENTERPRISE \$ \$ 0.94	OF LABOR OF COST PROFIT ON ENTERPRISE \$ \$ \$ \$ 1.17 0.94 8,657- 8.84 1.00 398- 5.39 0.95 5,471- 3.84 0.94 5,763- 6.06- 0.86 8,096- 16.83 1.26 15,524 13.41 1.11 5,869 8.91 1.04 1,830 9.87 1.08 3,397 8.23 1.03 1,099 3.47- 0.88 3,647- 4.12 0.95 1,284- 5.05- 0.90 2,848- 7.35- 0.69 7,599- 39.74- 0.63 6,271- 2.77 0.96 813- 45.15- 0.32 10,897- 8.97 1.05 685 20.43- 0.63 4,319- 13.17- 0.73 2,736- 10.36- 0.70 2,644- CRES: 3.	NET NET OF OF OF PROFIT ON	PER TON*** HOUR OF OF OF OF ENTERPRISE PROFIT ON ENTERPRISE \$ \$ \$ \$ \$ \$ \$ \$ \$ 23 22 1.17 0.94 8,657- 22 22 8.84 1.00 398- 23 22 5.39 0.95 5,471- 25 23 3.84 0.94 5,763- 23 20 6.06- 0.86 8,096- 21 26 16.83 1.26 15,524 21 23 13.41 1.11 5,869 22 23 8.91 1.04 1,830 23 25 9.87 1.08 3,397 24 25 8.23 1.03 1,099 25 22 3.47- 0.88 3,647- 25 23 4.12 0.95 1,284- 27 24 5.05- 0.90 2,848- 33 23 7.35- 0.69 7,599- 32 20 39.7	ER ACRE LABOR PER TON*** HOUR OF OF OF OF OF OF OF ENTERPRISE PROFIT ON ENTERPRISE \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

Corn Grain -

Harvesting costs include costs to place the crop in a truck if the crop is to leave the farm for any reason at harvest time. Otherwise, harvesting costs include costs to deliver the corn to farm drying facilities or storage.

Storing and selling costs include costs to haul the corn from the farm to be dried, stored, and/or sold. Also included are drying, storing, and handling costs to the point of sale. Fuel for drying and custom drying costs are included under "all other" along with interest on the value of the stored crop. If the crop is used on the farm, costs to remove it from storage are charged to the livestock enterprise. A wide range of practices are followed from farm to farm.

CORN FOR GRAIN COSTS AND RETURNS PER ACRE 952 ACRES ON 6 COST ACCOUNT FARMS, 1982

ITEM		AVERAGE	PER ACE
OSTS			
GROWING:			
LABOR	2 HR	\$ 16	
TRACTOR	1 HR	22	
TRUCK, E	QUIPMENT	20	
CUSTOM W	JORK, EQUIPMENT RENT	1	
LAND USE	CON	69	
MANURE,	LIME, COVER CROP	12	
FERTILI2	CER - LBS N- 116, P- 63, K- 97	56	
SEED, PL	ANTS 25 M	17	
SPRAY, I	OUST MATERIALS	25	
INTEREST	C, ALL OTHER	12	
TOTA	AL GROWING COSTS		\$250
HARVESTING:		•	
LABOR	2 HR	15	
TRACTOR	0 HR	3	
TRUCK, F	EQUIPMENT	26	
CUSTOM W	ORK, EQUIPMENT RENT	1	
ALL OTHE	ER	.7	
	AL HARVESTING COSTS		5
	AL PRODUCTION COSTS		\$30
STORING AND) SELLING: 1 HR	-	
LABOR	1 HR	. 5	
TRACTOR,	TRUCK, EQUIPMENT	15	
BUILDING	G USE	1	
INTEREST	r, ALL OTHER	34	_
	AL STORING AND SELLING COSTS		5
TOTAL COSTS	5		\$35
ETURNS			
	LD: 106 BU	6200	
CKUP - IIEI	Th: Too be	\$299	
BI-PRODUCT,	OTHER RETURNS**	0	620
TOTAL RETUI	(1)5		\$29
<u>ROFIT</u>	- अब्द		5
ه سوه مونه دینه دینه میشد بیک پیش پیشد و پیشد و پیشد و		AVER	
THER FACTORS:	COST PER BU TO: GROW	\$2.	36
	HARVEST		49
	STORE AND SELL		51
	TOTAL (OR NET*) COST PER BU		. 36
	TOTAL (OR NET*) RETURN ** PER BU		.82
	PROFIT PER BU	0.	54-
r.	LABOR RETURN PER ACRE	Ş	21-
	PRODUCTION PER HOUR OF LABOR		30 BU
1	RETURN PER HOUR OF LABOR	\$5.	. 14-

^{*}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED.
**RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED.

FACTORS FROM 6 ENTERPRISES OF CORN FOR GRAIN 6 COST ACCOUNT FARMS, 1982 (ARRANGED BY ACRES OF CROP)

y.	ACRES			PROD PER		AVERAG	E PER ACRE	
FARM	PER	AVERAGE	PER ACRE	HR OF	GROW	HARV	TOTAL	TOTAL
NO	ENTR	YIELD	LABOR*	LABOR	COST	COST	COST**	RETURN
	AC	BU	HR	BU	\$	\$	\$	\$
827	506.0	96	4	29	232	44	327	268
848	280.0	117	3	34	295	54	415	346
836	86.1	116	5	24	199	55	268	292
867	46.0	130	2	54	282	91	466	391
105	17.3	91	3	33	215	60	347	273
105	16.6	120	9	15	237	126	431	264
ANNUAL	AVERAGES	S - ALL EN	TR, WEIGHT	TED BY ACRE	<u>s:</u>			
1982	158.7	106	4	30	250	52	357	300
1981	82.2	93	3	29	220	47	310	240
1 9 80	54.8	100	3	29	184	40	259	331
1979	97.9	99	3	28	181	43	266	265
1978	153.5	92	3	31	156	30	222	205

^{*}TO GROW AND HARVEST THE CROP.

^{**}INCLUDES STORING AND SELLING COSTS.

^{***}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED).

FACTORS FROM 6 ENTERPRISES OF CORN FOR GRAIN 6 COST ACCOUNT FARMS, 1982 (READ ACROSS BOTH PAGES)

-		AVERAGE PER BUSHEL***		RETURN	PER \$		
AVERAGE	PER ACRE LABOR	PER BU	NET	HOUR OF	э OF	PROFIT ON	FARM
PROFIT	RETURN	COST	RETURN	LABOR	COST	ENTERPRISE	NO
\$	\$	\$	\$	\$	\$	\$	
59-	22-	3.41	2.80	5.19-	0.82	29,701-	827
69-	28-	3.54	2.95	7.88-	0.83	19,282-	848
24	59	2.32	2.52	12.14	1.09	2,026	836
75-	64-	3.58	3.00	24.90-	0.84	3,464-	867
74 -	59	3.80	3.00	21.21-	0.79	1,272-	105
167-	119-	3.59	2.20	13.10-	0.61	2,763-	105
ANNUAL	AVERAGES - AI	L ENTR, W	EIGHTED BY	ACRES:			
		3.36	2,82	5.14-	0.84	9,076-	1982
57-	21-	3.35	2.59	12.79-	0.77	5,778-	1981
70-	45	2,59	3.30	23.76	1.28	3,907	1980
72	97	2.69	2.68	5.12	1.00	112-	1979
1- 17-	19			0.00	0.92	2,721-	1978
17-	0	2.41	2,22	0.00	0.92	2,721-	

High Moisture Corn -

These enterprises include both high moisture shelled corn and ground ear corn fed on the farm to dairy cattle. Costs to remove the corn from storage are charged to the livestock enterprise.

HIGH MOISTURE CORN COSTS AND RETURNS PER ACRE 2,600 ACRES ON 15 COST ACCOUNT FARMS, 1982

ITEM		AVERAGE P	ER ACRE		
COSTS					
GROWING:					
LABOR	2 HR	\$ 10	•		
	1 HR	16			
TRUCK,	EQUIPMENT	19			
CUSTOM V	WORK, EQUIPMENT RENT	3			
LAND US	[59			
	LIME, COVER CROP	21			
FERTILI:	ZER - LBS N- 102, P- 69, K- 83	51			
SEED, P	LANTS 25 M	17			
SPRAY,	DUST MATERIALS	25			
INTERES'	T, ALL OTHER	6			
TOT	AL GROWING COSTS		\$227		
HARVESTING					
LABOR	2 HR	10			
TRACTOR	1 HR	7			
TRUCK,	EQUIPMENT	24			
CUSTOM	WORK, EQUIPMENT RENT	4			
	ER	· 3			
TOT	AL HARVESTING COSTS		48		
	AL PRODUCTION COSTS		\$275		
STORING AN	D SELLING:	_			
LABOR	0 HR	0			
	, TRUCK, EQUIPMENT	0			
BUILDIN	G USE	14			
INTERES	T, ALL OTHER	16			
TOT	AL STORING AND SELLING COSTS		30		
TOTAL COST	S		\$305		
RETURNS					
CROP - YIE	LD: 3.8 TN	\$262			
RV_PRODUCT	, OTHER RETURNS**	0			
TOTAL RETU		0	\$262		
TOTAL RETO					
PROFIT			43-		
		AVERA	GE.		
OTHER FACTORS:	COST PER TN TO: GROW	\$ 6	50		
	HARVEST	· ·	.3		
	STORE AND SELL	•	8		
	TOTAL (OR NET*) COST PER TN				
	TOTAL (OR NET*) RETURN ** PER TN	ϵ	59		
	PROFIT PER TN	1	.2-		
	LABOR RETURN PER ACRE	\$ 2	22-		
	LABOR RETURN PER ACRE PRODUCTION PER HOUR OF LABOR		22- 1 TN		
			1 TN		

^{*}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED.

^{**}RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED.

FACTORS FROM 19 ENTERPRISES OF HIGH MOISTURE CORN 15 COST ACCOUNT FARMS, 1982 (ARRANGED BY ACRES OF CROP)

	10000			PROD				-
T9 4 T3 1 Z	ACRES			PER	december 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	AVERAG		
FARM	PER		PER ACRE	HR OF	GROW	HARV	TOTAL	TOTAL
NO	ENTR	YIELD	LABOR*	LABOR	COST	COST	COST**	RETURN
	AC	TN	HR	TN	\$	\$	\$	\$
834	510.0	4.0	2	1.7	216	32	267	263
827†	458.0	3.6	4	1.1	235	46	331	288
834†	342.0	3.2	2	1.5	219	33	272	240
824†	202.4	2.2	2	1.2	239	- 38	293	144
111	129.0	3.9	7	0.5	215	83	317	232
821	128.0	5.3	7	0.7	209	91	336	369
112†	114.0	3.5	. 2	1.5	227	38	306	256
830	107.8	5.3	5	1.1	233	35	328	371
828†	104.4	3.6	5 2	3.6	232	37	293	216
105	95.4	5.8	5	1.3	239	66	326	350
105†	85.9	3.0	3	1.0	200	60	273	215
867†	66.0	3.9	2	1.5	282	95	420	312
835†	66.0	3.3	. 4	1.0	252	43	307	244
806†	57.8	3.1	5	0.6	243	60	379	218
835	42.5	5.9	4	1.5	256	48	322	381
105	32.7	4.4	6	0.9	247	73	322	177
153	28.2	5.2	3	1.9	225	63	308	339
146	21.9	2.3	6	0.4	206	121	349	119
867†	8.0	2.1	3	0.7	238	79	341	170
1982 GE	ROUP AVE	RAGES ACC	CORDING TO	ACRES:				
THIRDS	-		·					
HIGH	294.9	3.7	4	1.1	222	54	303	256
MED	91.4	4.1	3	1.6	238	53	303 322	236
LOW	31.9	3.8	5	1.0	236	74	337	234
ANNUAL	AVERAGE:	S - ALL E	NTR, WEIGHT	EED BY ACRE	S:		÷	
1982	136.8	3.8	. 3	1.1	 227	48	3 0 E	262
1981	125.9	3.6	3 4	1.1 1.1	216		305	262
1980	144.3	3.6				51 62	291	268
			4	1.0	191	42	255	314
1979	137.5	3.8	3	1.1	159	41	217	264
1978	119.3	3.5	4	0.9	154	33	200	208

^{*}TO GROW AND HARVEST THE CROP.

^{**}INCLUDES STORING AND SELLING COSTS.

^{***}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED).

THARVESTED AS HM SHELLED CORN, OTHERWISE AS HM GROUND EAR CORN.

FACTORS FROM 19 ENTERPRISES OF HIGH MOISTURE CORN 15 COST ACCOUNT FARMS, 1982 (READ ACROSS BOTH PAGES)

			RAGE	RETURN			
AVERAGE I	PER ACRE	PER	TON***	HOUR	\$		
	LABOR	NET	NET	OF	OF	PROFIT ON	FARM
PROFIT	RETURN	COST	RETURN	LABOR	COST	ENTERPRISE	NO
\$	\$	\$	\$	\$	\$	\$	
4-	10	66	65	4.00	0.98	2,164-	834
43-	16-	92	80	4.87-	0.87	19,947-	827
32-	19-	85	75	8.90-	0.88	10,911-	834
149-	138-	132	65	71.91-	0.49	30,168-	824
85-	43	82	60	6.11-	0.73	10,917-	111
33	71	64	70	9.49	1.10	4,202	821
50-	37-	87	73	14.53-	0.84	5,723-	112
43	69	62	70	14.53	1.13	4,586	830
77-	65	82	60	23.23-	0.74	8,074-	828
24	49	56	60	10.66	1.07	2,313	105
58-	43-	92	73	15.10-	0.79	4,981-	105
108-	97-	108	80	37.73-	0.74	7,130-	867
63-	47	94	75	15.00-	0.80	4,148-	835
161-	124-	122	70	24.98-	0.58	9,310-	806
59	78	55	65	20.37	1.18	2,513	835
145	114-	73	40	21.24-	0.55	4,732-	105
31	45	59	65	16.49	1.10	878	153
230-	205-	153	52	36.91-	0.34	5,049-	146
171-	157-	160	80	52.46-	0.50	1,366-	867
					<u>ξ</u>		
1982 GRO	UP AVERAGES	ACCORDIN	G TO ACRES:	-	i		
							THIRDS
47-	23-	87	69	13.05-	0.84	11,651-	HIGH
41-	24-	83	70	11.49-	0.87	3,308-	MEL
103-	80-	104	62	16.46-	0.71	2,844-	LOW
ANNUAL A	VERAGES - AI	LL ENTR, W	EIGHTED BY	ACRES:			•
42-	22-	81	69	6.63-	0.86	5,796-	1982
23-	1-	81	75	0.45-	0.92	2,819-	1981
59	80	71	87	22.68	1.23	8,578	1980
47	66	57	69	18.84	1.22	6,560	1979
8	28	56	59	6.98	1.04	1,005	1978
O	20	70	22	0.70	T • O-4	1,000	19/0

Small Grains -

Harvesting costs include costs to harvest the grain only and place it in farm storage. Costs and returns for handling the straw have been excluded from the enterprise figures.

Storing and selling costs include mainly the cost of bins to store the crop and interest on the value of the stored crop. Costs incurred by the grower to sell any part of the crop would also be included. If fed on the farm, cost to remove the crop from storage are charged to the consuming livestock enterprise.

WINTER WHEAT COSTS AND RETURNS PER ACRE 1,067 ACRES ON 7 COST ACCOUNT FARMS, 1982

ITEM		AVERAGE	PER ACR
OSTS			
GROWING:			
LAROR	1 HR	\$ 10	
ም ያለርጥር <u>የ</u>	1 ир	11	
ጥ ወ፤፤ <i>ሮዩ</i> ፑ	OULT DATE NOT	15	
CUSTOM W	ORK. EQUIPMENT RENT	4	
LAND HSE		64	
MANURE,	LIME, COVER CROP	2	
FERTILÍZ	FR - IRS N- 76. P- 39. K- 34	36	
זם חששי	ANTC 131 LR	20	
SPRAY, D	UST MATERIALS	2	
TNTFDFCT	ATT OTHER	7	
TOTA	L GROWING COSTS		\$171
HARVESTING:		_	
LABOR	1 HR	7	
TRACTOR	0 HR	1	
TRUCK, E	QUIPMENT	22	
CUSTOM W	ORK, EQUIPMENT RENT	0	
ALL OTHE	R	4	34
TOTA	L HARVESTING COSTS		\$205
	L PRODUCTION COSTS		\$20.
STORING AND	O HR	1	
LABOR	TRUCK, EQUIPMENT	. 5	
TRACTOR,	USE	1	
DUILDING	, ALL OTHER	12	
TOTAL	L STORING AND SELLING COSTS		19
1017 የተደበግ 16 ተለጥሞ	S		\$224
RETURNS			
· · · · · · · · · · · · · · · · · · ·		0170	
CROP - YIEI	D: 50 BU	\$173	
BY-PRODUCT,	OTHER RETURNS**	0	\$17
TOTAL RETU	RNS		Ş1 /.
PROFIT			5
		AVE	ERAGE
THER FACTORS:	COST PER BU TO: GROW		3.42
	HARVEST		0.69
	STORE AND SELL).39
	TOTAL (OR NET*) COST PER BU TOTAL (OR NET*) RETURN ** PER BU		4.50
		3.47	
	PROFIT PER BU		1.03-
	LABOR RETURN PER ACRE		34-
	PRODUCTION PER HOUR OF LABOR		25 BU
		1	6.29-
	PRODUCTION PER HOUR OF LABOR RETURN PER HOUR OF LABOR RETURN PER DOLLAR OF COST		25 BI 6.29- 0.77

^{*}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED.
**RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED.

FACTORS FROM 7 ENTERPRISES OF WINTER WHEAT 7 COST ACCOUNT FARMS, 1982 (ARRANGED BY ACRES OF CROP)

ACRES			PROD PER		AVERAG	E PER ACRE	
PER ENTR	AVERAGE YIELD	PER ACRE LABOR*	HR OF LABOR	GROW COST	HARV COST	TOTAL COST**	TOTAL RETURN
AC	BU	HR	ви	\$	\$	\$	\$
756.0	54	2	29	180	36	240	190
114.0	32	1	23	130	29	170	108
89.0	41	2	19	153	and the second s		147
41.4	47	4					182
37.3	45	3					127
17.0	49						145
12.0	25	3	10	116	18	139	74
AVERAGES	S - ALL EN	TR, WEIGHT	ED BY ACRE	<u>s:</u>			
152.4	50	2	25	171	34	224	173
145.7	56	2	29	134	30		198
150.2	50	2	26	120	27		202
130.9	47	2	23	110			189
41.5	3 0	4	8	116	21	147	111
	PER ENTR AC 756.0 114.0 89.0 41.4 37.3 17.0 12.0 AVERAGES 152.4 145.7 150.2 130.9	PER AVERAGE ENTR YIELD AC BU 756.0 54 114.0 32 89.0 41 41.4 47 37.3 45 17.0 49 12.0 25 AVERAGES - ALL EN 152.4 50 145.7 56 150.2 50 130.9 47	PER AVERAGE PER ACRE YIELD LABOR* AC BU HR 756.0 54 2 114.0 32 1 89.0 41 2 41.4 47 4 37.3 45 3 17.0 49 2 12.0 25 3 AVERAGES - ALL ENTR, WEIGHT 152.4 50 2 145.7 56 2 150.2 50 2 130.9 47 2	ACRES PER AVERAGE PER ACRE ENTR YIELD LABOR* AC BU HR BU 756.0 54 2 29 114.0 32 1 23 89.0 41 2 19 41.4 47 4 13 37.3 45 37.3 45 17.0 49 2 17 12.0 25 3 10 AVERAGES - ALL ENTR, WEIGHTED BY ACRE 152.4 50 2 25 145.7 56 2 29 150.2 50 2 26 130.9 47 2 23	ACRES PER PER AVERAGE PER HR OF GROW ENTR YIELD LABOR* LABOR COST AC BU HR BU \$ 756.0 54 2 29 180 114.0 32 1 23 130 89.0 41 2 19 153 41.4 47 4 13 148 37.3 45 3 15 182 17.0 49 2 17 182 12.0 25 3 10 116 AVERAGES - ALL ENTR, WEIGHTED BY ACRES: AVERAGES - ALL ENTR, WEIGHTED BY ACRES: 152.4 50 2 25 171 145.7 56 2 29 134 150.2 50 2 26 120 130.9 47 2 23 110	ACRES PER AVERAGE PER GROW HARV PER AVERAGE PER ACRE HR OF GROW HARV GROW HARV HAR BU \$ AC BU HR BU \$ \$ 756.0 54 2 29 180 36 114.0 32 1 23 130 29 89.0 41 2 19 153 24 41.4 47 4 13 148 49 37.3 45 3 15 182 26 17.0 49 2 17 182 29 12.0 25 3 10 116 18 AVERAGES - ALL ENTR, WEIGHTED BY ACRES: ACRES: ACRES: ACRES: 152.4 50 2 29 134 30 150.2 50 2 26 120 27 130.9 47 2 23 110 21	ACRES PER AVERAGE PER ACRE HR OF GROW HARV TOTAL ENTR YIELD LABOR* LABOR COST COST COST** AC BU HR BU \$ \$ \$ \$ 756.0 54 2 29 180 36 240 114.0 32 1 23 130 29 170 89.0 41 2 19 153 24 185 41.4 47 4 13 148 49 210 37.3 45 3 15 182 26 213 17.0 49 2 17 182 29 210 12.0 25 3 10 116 18 139 AVERAGES - ALL ENTR, WEIGHTED BY ACRES: AVERAGES - ALL ENTR, WEIGHTED BY ACRES: 152.4 50 2 25 171 34 224 145.7 56 2 29 134 30 181 150.2 50 2 26 120 27 167 130.9 47 2 23 110 21 150

^{*}TO GROW AND HARVEST THE CROP.

^{**}INCLUDES STORING AND SELLING COSTS.

^{***}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED).

FACTORS FROM 7 ENTERPRISES OF WINTER WHEAT 7 COST ACCOUNT FARMS, 1982 (READ ACROSS BOTH PAGES)

AVERAGE	PER ACRE	AVE PER BU	RAGE SHEL***	RETURN HOUR	PER \$		
	LABOR	NET	NET	OF	OF	PROFIT ON	FARM
PROFIT	RETURN	COST	RETURN	LABOR	COST	ENTERPRISE	NO
\$	\$	\$	\$	\$	\$	\$	
50~	33-	4.42	3.49	16.65-	0.79	38,084-	827
62-	48-	5.28	3.34	34.13-	0.63	7,174-	848
38-	24-	4.48	3.56	11.18-	0.79	3,393-	834
28-	11	4.45	3.85	2.67	0.86	1,176-	836
86-	69-	4.73	2.82	23.14-	0.60	3,198-	824
65-	53-	4.28	2.95	18.69-	0.69	1,110-	828
65-	49–	5.47	2.94	13.86-	0.54	771-	867
			·				
ANNUAL A	VERAGES - AL	L ENTR, W	EIGHTED BY	ACRES:			
51-	34-	4.50	3.47	16.29-	0.77	7,844-	1982
17	33	3.23	3.54	15.26	1.10	2,509	1981
35	50	3.32	4.01	22.46	1.21	5,236	1980
39	54	3.19	4.04	22.68	1.26	5,171	1979
36-	16-	4.89	3.67	4.11-	0.75	1,520-	1978

NOTE: see page 28.

SPRING WHEAT COSTS AND RETURNS PER ACRE 466 ACRES ON 6 COST ACCOUNT FARMS, 1982

ITEM	AVERA	GE PER ACR
COSTS		
GROWING:		
LABOR 2 HR	- \$ 12	
TRACTOR 1 HR	- 18	
TRUCK, EQUIPMENT	- 12	
CUSTOM WORK, EQUIPMENT RENT	- 12	
LAND USE	- 51	
MANURE, LIME, COVER CROP		
FERTILIZER - LBS N- 101, P- 38, K- 38	- 42	
SEED, PLANTS 164 LB	- 25	
SPRAY, DUST MATERIALS	- 1	
INTEREST. ALL OTHER	- 14	
TOTAL GROWING COSTS		\$188
HARVESTING:		
LABOR 1 HR	- 6	
TRACTOR 0 HR	- 3	
TRUCK, EQUIPMENT	- 18	
CUSTOM WORK, EQUIPMENT RENT	- 1	
ALL OTHER	- 3	
TOTAL HARVESTING COSTS	-	31
TOTAL PRODUCTION COSTS	-	\$219
STORING AND SELLING: LABOR O HR		
LABOR O HR	- 0	
TRACTOR, TRUCK, EQUIPMENT BUILDING USE	- 2 - 1	
BUILDING OSE	_ 9	
INTEREST, ALL OTHER	_	12
TOTAL COSTS	_	\$231
		γ 🕶 🕶 🚨
RETURNS		
CROP - YIELD: 45 BU	- \$178	1
BY-PRODUCT, OTHER RETURNS**	- C)
TOTAL RETURNS	_	\$178
PROFIT		53
		VERAGE
	A	-,
	A	A/ 15
OTHER FACTORS: COST PER BU TO: GROW	A 	\$4.15
OTHER FACTORS: COST PER BU TO: GROW HARVEST	A	0.68
OTHER FACTORS: COST PER BU TO: GROW HARVEST STORE AND SELL		0.68 0.25
OTHER FACTORS: COST PER BU TO: GROW HARVEST STORE AND SELL TOTAL (OR NET*) COST PER BU		0.68 0.25 5.08
OTHER FACTORS: COST PER BU TO: GROW HARVEST STORE AND SELL		0.68 0.25
OTHER FACTORS: COST PER BU TO: GROW HARVEST STORE AND SELL TOTAL (OR NET*) COST PER BU TOTAL (OR NET*) RETURN ** PER BU PROFIT PER BU	<u>.</u>	0.68 0.25 5.08 3.92 1.16-
OTHER FACTORS: COST PER BU TO: GROW HARVEST STORE AND SELL TOTAL (OR NET*) COST PER BU TOTAL (OR NET*) RETURN ** PER BU PROFIT PER BU LABOR RETURN PER ACRE		0.68 0.25 5.08 3.92 1.16- \$ 35-
OTHER FACTORS: COST PER BU TO: GROW HARVEST STORE AND SELL TOTAL (OR NET*) COST PER BU TOTAL (OR NET*) RETURN ** PER BU PROFIT PER BU	<u>.</u>	0.68 0.25 5.08 3.92 1.16-

^{*}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED.

^{**}RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED.

FACTORS FROM 6 ENTERPRISES OF SPRING WHEAT 6 COST ACCOUNT FARMS, 1982 (ARRANGED BY ACRES OF CROP)

	ACRES			PROD PER		AVERAG	E PER ACRE	3
FARM	PER	AVERAGE		HR OF	GROW	HARV	TOTAL	TOTAL
NO	ENTR	YIELD	LABOR*	LABOR	COST	COST	COST**	RETURN
	AC	BU	HR	BU	\$	\$	\$	\$
864	284.4	51	2	27	196	33	241	194
834	55.0	37	3	14	180	23	215	146
848	50.8	35	3	16	196	21	231	156
827	48.0	45	5	9	193	36	244	195
830	23.0	28	4	8	92	30	128	97
146	5.0	30	4	6	165	34	203	90
ANNUAL	AVERAGES	- ALL E	NTR, WEIGHT	ED BY ACRE	S:			
1982	77.7	45	2	19	189	31	231	178

^{*}TO GROW AND HARVEST THE CROP.

^{**}INCLUDES STORING AND SELLING COSTS.

^{***}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED).

FACTORS FROM 6 ENTERPRISES OF SPRING WHEAT 6 COST ACCOUNT FARMS, 1982 (READ ACROSS BOTH PAGES)

AVERAGE	PER ACRE	PER BU	RAGE SHEL***	RETURN HOUR	PER ·		
PROFIT	LABOR RETURN	NET COST	NET RETURN	OF LABOR	OF COST	PROFIT ON ENTERPRISE	FARM NO
\$	\$	\$	\$	\$	\$	\$	
47-	34-	4.75	3.83	18.13-	0.81	13,236-	864
69-	53-	5.80	3.94	19.87-	0.68	3,797-	834
75~	50-	6.51	4.39	22.11-	0.67	3,824-	848
49-	8-	5.40	4.31	1.72-	0.80	2,373-	827
31-	11-	4.61	3.50	3.01-	0.76	708-	830
113~	90-	6.76	3.00	18.99-	0.44	564-	146
ANNUAL	AVERAGES - AL	L ENTR, W	EIGHTED BY	ACRES:		2	
53	35-	5.08	3.92	14.29-	0.77	4,084-	1982

FACTORS FROM 3 ENTERPRISES OF SPRING BARLEY 3 COST ACCOUNT FARMS, 1982 (ARRANGED BY ACRES OF CROP)

FARM	ACRES PER	AVERAGE		PROD PER HR OF	GROW	HARV	PER ACRE	TOTAL
МО	ENTR	YIELD	LABOR*	LABOR	COST	COST	COST**	RETURN
	AC	BU	HR	BU	\$	\$	\$	\$
835	42,5	80	4	22	142	48	195	132
840	29.0	61	3	22	163	26	200	167
836	11.7	98	2	43	159	53	224	197

FACTORS FROM 2 ENTERPRISES OF OATS 2 COST ACCOUNT FARMS, 1982 (ARRANGED BY ACRES OF CROP)

FARM NO	ACRES PER ENTR	AVERAGE YIELD	PER ACRE LABOR*	PROD PER HR OF LABOR	GROW COST	AVERAGE HARV COST	PER ACRE TOTAL COST**	TOTAL RETURN
	AC	BU	HR	BU	\$	\$	\$	\$
827 840	45.0 30.0	111 62	2 3	53 22	125 149	26 25	154 178	145 113

SUNFLOWERS FACTORS FROM 1 ENTERPRISE OF OTHER GRAINS 1 COST ACCOUNT FARM, 1982 (ARRANGED BY ACRES OF CROP)

FARM	ACRES PER	AVERAGE	PER ACRE	PROD PER HR OF	GROW	HARV	PER ACRE	TOTAL
NO	ENTR	ATEPD	LABOR*	LABOR	COST	COST	COST**	RETURN
	AC	LB	HR	LB	\$	\$	\$	\$
864	232.2	1,981	2	765	216	54	310	277

^{*}TO GROW AND HARVEST THE CROP.

^{**}INCLUDES STORING AND SELLING COSTS.

^{***}VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED).

FACTORS FROM 3 ENTERPRISES OF SPRING BARLEY 3 COST ACCOUNT FARMS, 1982 (READ ACROSS BOTH PAGES)

AVERAGE PER ACRE		AVERAGE PER BUSHEL***		RETURN PER HOUR \$			
PROFIT	LABOR	NET	NET	OF	OF	PROFIT ON	FARM
	RETURN	COST	RETURN	LABOR	COST	ENTERPRISE	NO
\$	\$	\$	\$	\$	\$	\$	
63-	45	2.43	1.65	12.15-	0.68	2,683-	835
33-	15	3.28	2.73	4.96	0.83	975-	840
27-	5	2.28	2.00	2.18-	0.88	320-	836

FACTORS FROM 2 ENTERPRISES OF OATS 2 COST ACCOUNT FARMS, 1982 (READ ACROSS BOTH PAGES)

AVERAGE PROFIT	PER ACRE LABOR RETURN		RAGE ISHEL*** NET RETURN	RETURN HOUR OF LABOR	PER \$ OF COST	PROFIT ON ENTERPRISE	FARM NO
\$	\$	\$	\$	\$	\$	\$	
9- 65-	8 47-	1.38 2.85	1.30 1.80	3.94 16.38-	0.94 0.63	419- 1,969-	827 840

FACTORS FROM 1 ENTERPRISE OF OTHER GRAINS 1 COST ACCOUNT FARM, 1982 (READ ACROSS BOTH PAGES)

AVERAGE PER ACRE		AVERAGE PER POUND***		RETURN PER		74 (30)	
PROFIT	LABOR RETURN	NET COST	NET RETURN	OF LABOR	OF COST	PROFIT ON ENTERPRISE	FARM NO
\$	\$	\$	\$	\$	ş	\$	
33-	11-	0.16	0.14	3.45-	0.89	7,560-	864